

INTERNATIONAL SEARCH REPORT

International Application No

PC/JP/US 03/31616

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01R13/635 G06K7/00 G06K13/08 H05K5/02 H01R13/658

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R G06K H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 129 562 A (HONG KWEN MING) 10 October 2000 (2000-10-10)	1, 3-11, 13-16
Y	the whole document	2, 12
Y	US 5 421 737 A (CHEN LIU-YUAN ET AL) 6 June 1995 (1995-06-06) claim 1; figures 4, 5	2, 12
A	US 2001/014554 A1 (FUTATSUGI TAKASHI ET AL) 16 August 2001 (2001-08-16)	
A	US 5 921 792 A (CHEN ROBERT) 13 July 1999 (1999-07-13)	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

1 March 2004

Date of mailing of the international search report

10/03/2004

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INTERNATIONAL SEARCH REPORT

for information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6129562	A	10-10-2000	TW	379878 Y	11-01-2000
US 5421737	A	06-06-1995	DE	69500024 D1	26-09-1996
			DE	69500024 T2	19-06-1997
			EP	0678824 A1	25-10-1995
			ES	2092414 T3	16-11-1996
			HK	212296 A	06-12-1996
			KR	143650 Y1	15-06-1999
US 2001014554	A1	16-08-2001	JP	11345652 A	14-12-1999
			CN	1237814 A	08-12-1999
			TW	417871 Y	01-01-2001
US 5921792	A	13-07-1999	JP	7272793 A	20-10-1995
			CN	1113041 A , B	06-12-1995